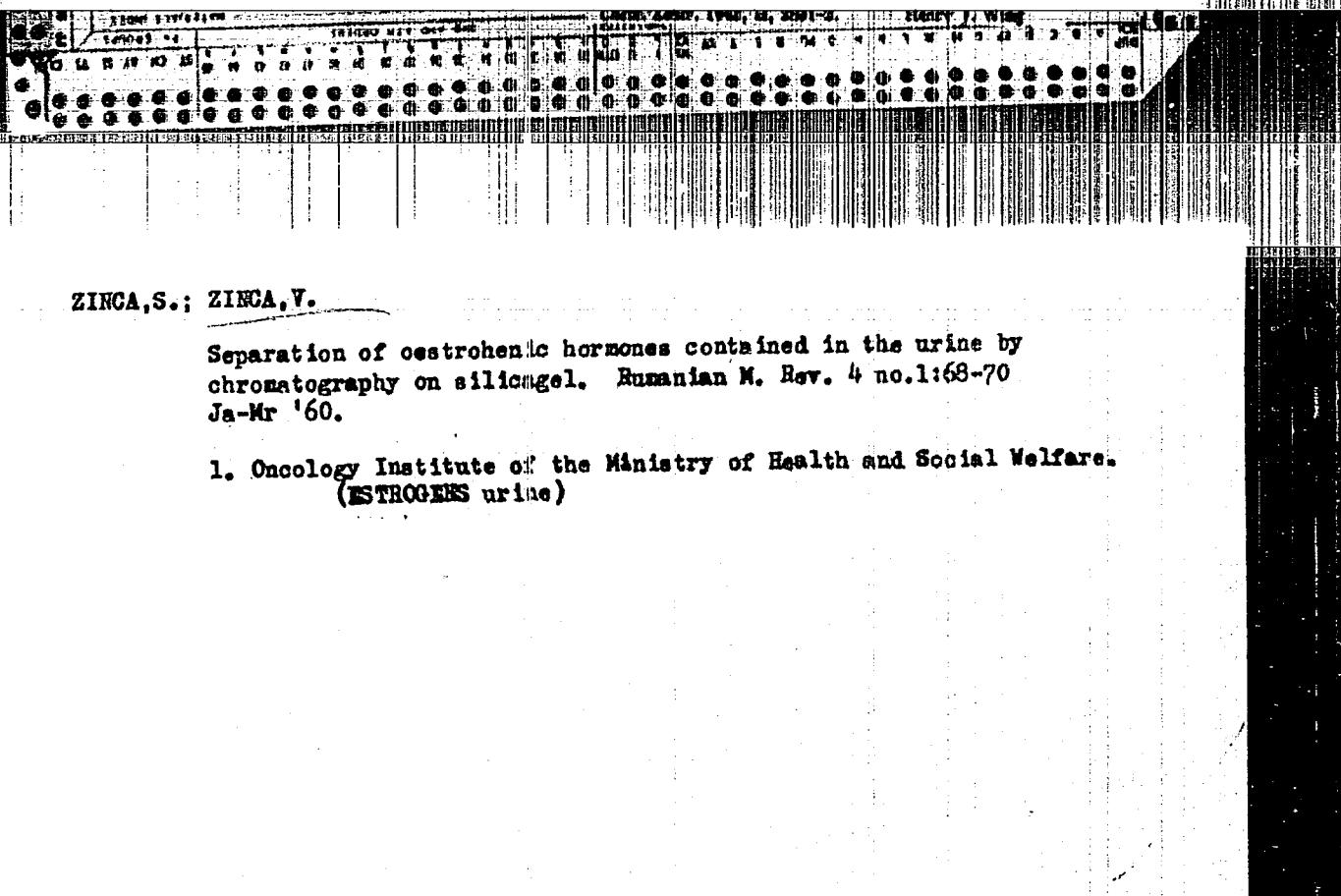


ROSNER, Dutu; ILIESCU, Florica L.; LUPOVICI, J.; ZINCA, V.; BANDROVSCHI, A.

Cystic mastosis and gynecomastia in males. Bul. sciint., sect. med. 8 no. 3:841-858 July-Sept 56.

1. Comunicare prezentata de academician V. D. Mirza in Sesiunea generala stiintifica a Academiei R.P.R., in sedinta din 30 iunie 1955.

(MASTITIS
cystic in males)
(GYNECOMASTIA)



RUMANIA / General Problems of Pathology. Tumors.
Metabolism.

U

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13547

Author : Bandrovscu, A.; Zinca, V.; Lupovici, J.;
Longhin, C.; Dutu, R.

Inst Title : Disturbances of Metabolism in Carcinoma.

Orig Pub : Comun. Acad. RPR, 1957, 7, No. 6, 627-632

Abstract : 31 patients with mammary-gland carcinoma and 4
patients in the precarcinomatous stage were ex-
amined. The progress of the disease led to a
decrease of the concentration of the total pro-
tein in blood and an increase of cholesterol.
Basal metabolism did not change noticeably. The
content of Na in serum increased to 300-500, K

Card 1/2

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ROSNER, Dutu.,; ILIESCU, Florica, L.; ZINCA, Victoria.; PASOU, Vilcu.

Indications of simultaneous functional tests of the mammary gland and endometrium, associated with hormonal metabolic tests, in cystic mastosis. Bul. st. int., sect. med. 7 no.2:621-637
Apr-June 55

(BREAST, cysts
cystic dis., diag., simultaneous funct. test of mammary gland & endometrium, with determ. of urinary steroids)

(STEROIDS, in urine
in cystic dis. of breast, diag. value of determ.)

(URINE
steroids, in cystic dis. of breast, diag. value of determ.)

(ENDOMETRIUM, function tests
in cystic dis. of breast, diag. value)

COSTACHEL, O.; ZINCA, Victoria; STRIMBEANU, I.; DANICEL, M.

The interaction of sarcolysine and alpha-tocopherol on the endocrine glands and hormone-responsive tissues of male rats. Stud. cercet. endocr. 13 no.5:693-695 '62.

(ENDOCRINE GLANDS) (KIDNEY) (LIVER) (GENITALIA, MALE)
(MELPHALAN) (VITAMIN D)

COSTACHEL, Q.; DANICEL, M.; ZINCA, V.; STRIMBEANU, I.

The influence of sarcolysine on the endocrine glands and on hormone-sensitive tissues in the male rat. Stud. cercet. endocr. 13 no.6:
747-751 '62.

(ENDOCRINE GLANDS) (MELPHALAN) (KIDNEY) (LIVER)
(PROSTATE) (SEMINAL VESICLES)

Ca

G

Artificial gills as an aid in studies on the permeability of living membranes. V. The penetration of butyl alcohol through a cellophane membrane. Eugen Macovski and Victoria Iancu. *Bull. soc. sci. agric. roumaine* 39, 235-61; (1949), 5749, C284; 39, 535. An app. is described by which the passage of butyl alc. through a cellophane membrane is measured. Butyl alc. penetrates the membrane in accordance with Fick's diffusion law. VI. The penetration of methyl violet through a cellophane membrane. Eugen Macovski and Ana Jivulescu. *Ibid.* 390-313. Methyl violet does not diffuse through a cellophane membrane according to Fick's law, but by combining the diffusion law with Ostwald-Freundlich's isothermal adsorption law, the new expression $c/c' = K$, represents the exptl. observed facts. Through *Tra. lab. chim. bulg. facult. sci. Univ. Bucarest* 1, No. 8, 9 pp. (in German). Bruno Vattel No. II, 23 pp. (1949) (in French).

ASV-51A METALLURGICAL LITERATURE CLASSIFICATION

JOURNAL	VOLUME	NUMBER	PAGES	EXPLANATION												EXPL. NO. 51A	EXPL. NO. 51B
				1	2	3	4	5	6	7	8	9	10	11	12		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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SADYKOV, G.G.; ZINCHENKO, A.A.

Use of amineacrine against trichomoniasis in bulls. Veterinariia
41 no.2:54 F '65. (MIRA 18:3)

1. Orenburgskiy sel'skokhozyaystvennyy institut.

ZINCHENKO, A.

Public food service at our factory. Sov.profsoiuzy 7 no.4:42-
44 Fe '59. (MIRA 12:5)

1. Predsedatel' zavkoma Taganrogskogo zavoda "Krasnyy kotel'-
shchik." (Taganrog--Restaurants, lunch rooms, etc.)

DUL'NEV, V.; POLETSKIY, V.A.; ZINCHENKO, A.; PILIPCHUK, R.; SHINKAREV,
IGNATOVICH, G.I.; ZHANUZAKOV, N.; KHERUVIMOV, V.P.; PLUZHNIKOVA, V.

Brief news. Veterinarija 41 no.7:122-126 J1 '64.

(MIRA 18:11)

ZINCHENKO, A.

High gains. Mias.ind.SSR 28 no.4:9-10 '57. (KIRA 10:7)
(Cattle--Feeding and feeding stuffs)

ZINCHENKO, A.

Progressive state farm, Kias, ind. SSSR 28 no.3:6 '57.

(MLRA 10:6)

1. Ministerstvo promyshlennosti myasnykh i molochnykh produktov
USSR.

(Swine--Feeding and feeding stuffs)

ZINCHENKO, A. A.

Zinchenko, A. A. - "Operational study of the hydrodynamic clutch on the stand and on the ZIS-5 automobile," Sbornik trudov (Akad. nauk Ukr. SSR, Laboratoriya problem bystrokhodnykh mashin i mekhanizmov), Issue 1, 1949, p. 20-37

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

KOLOKOLOV, N.M., doktor tekhn.nauk; KEDROV, A.I., kand.tekhn.nauk;
PROKOPOVICH, A.G., kand.tekhn.nauk; ZINCHENKO, A.A., inzh.;
BALYUCHIK, E.A., inzh.

Using high-strength rod reinforcements in prestressed bridge
girders. Transp. stroi. 13 no.6:22-25 Je 163. (MIRA 1619)
(Beams and girders)

ZINCHENKO, A.A., nachal'nik mostopoyezda; KUZURMAN, A.N.; PLYUSHIN, S.P.

Electrothermal tightening of rod reinforcement. Transp. stroi.
12 no.9:26-29 S '62.
(MIRA 16:2)

1. Nachal'nik Chelyabinskoy nauchno-issledovatel'skoy
stantsii Orgtransstroya (for Kuzurman). 9. Starshiy izzhener
Chelyabinskoy nauchno-issledovatel'skoy stantsii Orgtransstroya
(for Flyushin).

(Concrete reinforcement)

1. ZINCHENKO A.Y.
2. USSR (600)
4. Ukraine-grasses
7. Selecting the best grass mixtures for field crop rotations in the southern part of the Ukrainian forest-steppe region, Sbor.stul.rab.Umansk.sel'khoz. inst. no.1, 1951.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZINCHENKO, A.; DRACH, Ye; KUTSEL", Ye.

Using biogenics stimulants in fattening cattle. Mias.ind.SSSR
27 no.1:53-56 '56. (MLRA 9:6)

1.Starshiy vetrach Ministerstva promyshlennosti myasnykh i
molechaykh produktov USSR (for Zinchenko).2.Glavnyy vetrach
Karlovskoy veterinarnoy lechebnitsy Poltavskoy oblasti (for
Drach).3.Glavnyy vetrach Ukrglavskotootkorma (for Kutsel").

(Beef cattle--Feeding and feeding stuffs)

ZINCHENKO, A.K.

Changing the system of control for rectification columns in
the selection of lateral flows. Nefteper. i neftekhim. no.5:
42-43 '64. (MIRA 17:8)

1. Ukhtinskiy neftepererabatyvayushchiy zavod.

BRATUS', B.A.; ZINCHENKO, A.M.; MITULINSKIY, Yu.T.

Device for reading hand- and typewritten numbers. Avtom. i prib. no.1;
32-34 Ja-Mr '63. (MIRA 16:3)

1. Institut kibernetiki AN UkrSSR.
(Reading machines)

ZINCHENKO, A.M.

Marking output device for electronic digital computers.
Avtom.i prib. no.3;31-34 JI-S '62. (MIRA 16:2)

1. Vychislitel'nyy tsentr AN UkrSSR.
(Electronic digital computers)

ZINCHENKO, A.M.

Passive memory device for symbol indicators of digital computers.
Avtom. i prib. no.4:37..39 O-D '63. (MIRA 16:12)

1. Institut kibernetiki AN UkrSSR.

SOROKIN, P.I.; FOMINYKH, I.P.; MESPALOV, Ya.G.; POBEREZKIN, A.Z.; ZINCHENKO,
A.M.; OSKOLKOV, Ye.A.

Inoculation of cupola cast iron with rare-earth metal alloys.
Lit. proizv. no. 9:27-31 S '64. (MIRA 18:10)

ZINCHENKO, A.P.

Biological currents of the muscles in myotonia. Vop. psich i nevr.
no.3:244-253 '58.
(NIRA 12:3)

1. Iz kliniki nervnykh bolezney Voyenno-meditsinskoy ordem Lenina
akademii im. S.M. Kirova.
(MYOTONIA) (ELECTROMYOGRAPHY)

ZINCHENKO, A.P.; SHAMREY, R.K.

Neuroallergic pathogenesis of multiple sclerosis. Vop.
psikh. i nevr. no.9 214-226 '62. (MIRA 17:1)

1. Voyennno-meditsinskaya ordena Lenina akademiya imeni
Kirova.

PANOV, A.G.; ZINCHENKO, A.P.

Case of primary (atypical) amyloidosis imitating the
bulbar syndrome. Vop. psikh. i nevr. no.9:477-484 '62.
(MIRA 17:1)

1. Kafedra nervnykh bolezney Voyenno-meditsinskoy ordena
Lenina akademii imeni S.M. Kirova.

PANOV, A.G.; ZINCHENKO, A.P.; SEMENOVA, A.F.

Clinical aspects and pathomorphology of subacute progressive
leukoencephalitis. Zh. nevropat. psichiat. Korsakov 63 no.3:
321-329 '63
(MIRA 17:1)

1. Kafedra nervnykh bolezney Voyanno-meditsinskoy ordena
Lenina akademii imeni S.M.Kirova, Leningrad.

ZINCHENKO, A.P.

Specific diagnosis and therapy of chronic disseminated encephalo-
myelitis. Vop.psikh.i nevr. no.7:49-57 '61. (MIRA 15:8)
(ENCEPHALOMYELITIS)

ZINCHENKO, A.P.

Atropic myotonia following closed injury of the skull. Vop. psich.
i nevr. no.5:142-151 '59. (MIFB 14:5)

1. Kafedra nervnykh bolezney Voyenno-meditsinskikh ordera Lenina
akademii imeni S.M.Kirova (nachal'nik - prof. S.I.Karchikyan), 2-ya
klinika nervnykh bolezney (nachal'nik - prof. A.G.Panov).
(MYTONIA)

PANOV, A.G.; ZINCHENKO, A.P.; ANDRKYEVA, A.V. (Leningrad)

Erythrocytic inclusions in some virus diseases of the nervous system. Klin. med. 41 no.9:37-44 S'63 (MIRA 17:3)

1. Kafedra nervnykh bolezney Vojenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

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CIA-RDP86-00513R002065210020-3

ZINCHENKO, Aleksandr Pavlovich

[Myotonia] Miotomija, Leningrad, Medgiz, 1960. 157 p.
(MYOTONIA) (MIRA 13:9)

APPROVED FOR RELEASE: 07/16/2001

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ZINCHENKO, A.P., kand.med.nauk, mayor meditsinskoy sluzhby

Diagnosis and expert testimony in myotonis. Voen.-med.zhur. no.9:
76-78 S '59. (MIRA 13:1)
(MYOTONIA)

ZINCHENKO, A.P.

Clinical aspects, pathogenesis, and therapy of myotonia. [with
summary in French]. Zhur. nevr. i psich. 58 no.2:181-189 '58.
(MIRA 11:5)

1. Klinika nervnykh bolezney No.2 (nachal'nik - prof. A.G. Panov)
Voyenno-meditsinskoy ordona Lenina akademii imeni S.M. Kirova.
(MYOTONIA, case reports,
(Rus))

ZINCHENKO, A.P.

Role of the rabies virus in the etiology of multiple sclerosis
and encephalomyelitis. Zhur. nevr. i psikh. 65 no.11:1634-1643
'65. (MIRA 13:11)

1. Kafedra nervnykh bolezney (nachal'nik - prof. A.G. Panov)
Voyennno-meditsinskoy ordens Lenina akademii im. Kirova,
Leningrad.

ANTSYPALOVSKIY, Yu. F.; ZINCHENKO, A. P., kand. med. nauk (Leningrad)

Increased sensitivity to cold. Klin. med. no. 6:130-137 '61.
(MIHA 14:12)

1. Iz kliniki No. 2 (nach. - prof. A. G. Papov) kafedry nervnykh
bolezney (nach. - prof. S. I. Karchikayan) Vozerno-meditsinskoy ordene
Lenina akademii imeni S. M. Kirova.

(COLD--PHYSIOLOGICAL EFFECT) (ALLERGY)

PANOV, A.G.; ZINCHENKO, A.P.

Multiple sclerosis. Vop.psikh.i nevr. no.7:33-48 '61.

(MIRA 15:8)

(MULTIPLE SCLEROSIS)

OSTAPENKO, K.A.; KOROPOV, V.M.; POLUKHIN, F.S.; SHUBINA, M.G.; KARYAGIN, V.I.;
ZINCHENKO, A.V.; ROSTOMASHVILI, A.; GOGILASHVILI, V.; KURASHVILI, S.;
SIKORSKIY, A.

Information and brief news. Veterinariia 41 no.2:119-126 F '65.
(MIRA 18:3)

ZINCHENKO, Andrey Vasil'yevich; VIKHMAN, Viktor Semenovich; TRUBNIKOV, N.V., red.; KOLOTILOVA, Yu.V., referent, otv. za vypusk; SUKHAREVA, R.A., tekhn.red.

[New automatic control systems for machine tools] Novye sistemy upravleniya metallorezhushchimi stankami. Moskva, 1959. 36 p. (Moskovskii dom nauchno-tehnicheskoi propagandy. Peredovoi opyt proizvodstva. Seria: Progressivnaia tekhnologija mashinostroeniia, vyp. 3). (MIRA 13:8)

(Machine tools--Numerical control)

ZINCHENKO, A.V., vetvrazh

Diseases of swine caused by toxic fungi. Veterinariia 36 no.3:37
Mr '59. (MIRA 12-4)

1. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.
(Swine—Diseases) (Fungi, Pathogenic)

DRACH, Ye.M., vet. vrach; ZINCHENKO, A.V., vet. vrach; KUTSEL', Ye. N.,
vet. vrach

Important potential for improving meat production. Veterinariia 35
no. 7:84-85 J1 '58. (MIRA 11:?)

1. Myasokontrol'naya stantsiya Poltavskoy oblasti(for Drach).
2. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk(for Zinchenko). 3. Kiyevskiy oblagotekst (for Kutsel').
(Tissue extracts)

ZINCHENKO, A. V.

"Experimental results with a model of a milling machine."

Programmed Control of Metal Cutting Machines. report presented at
All-Union Conference, Moscow, 13-16 Nov 1957
Vestnik Ak. Nauk SSSR, 1958, No. 2, pp. 113-115, (author Kobrinskiy, A. Ye.)

ZINCHENKO, A.V., ZCTSENKO, N. V.

Horse Breeding

Some reports on the work of the station of artificial insemination of horses of the Poltava State Stables, Konevodstvo No. 4, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

1. ZINCHENKO, A. V.
2. USSR (600)
4. Kherson Province - Horse Breeding
7. Heading artificial insemination station for horses in Kherson Province. Konevodstvo No. 1 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZINCHENKO, D.P.

Growing musc sage in the Kuban. Agrobiologija no.6:942-943 N-D 160.
(MIRA 13:12)

1. Glavnny agronom sovkhzoza "Elit", Krasnodarskogo kraya.
(Kuban—Sage)

~~ZINCHENKO, E.M.~~

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh.; BONDARENKO, A.P., inzh.; BUCHNEV, V.K., kand. tekhn. nauk; VERSKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.P., inzh.; OLENSKUL, M.N., kand. tekhn. nauk; GORODNICHENOV, V.M., inzh.; DEMENT'EV, A.Ya., inzh.; DOHUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; YEPIFANTSEV, Yu.K., kand. tekhn. nauk; YERASHKO, I.S., inzh.; ZHEDANOV, S.A., kand. tekhn., inzh.; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, E.M., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSUROV, I.N., dots.; KITAYSKIY, B.V., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand. tekhn. nauk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAJ'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY, A.L., inzh.; MINDEL, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYYINSBURG, V.Ye., kand. tekhn. nauk; POEROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, B.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SHIBAEVSKIY, V.N., doktor tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKHUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TABANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FENDYUKIN, V.A., inzh.; KHOMLOVSKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHEREPAVKIN, N.N., inzh.; SHREIBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANGHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPLUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T.

(Continued on next card)

ANDROS, I.P.---(continued) Card 2.
red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY,
A.V., inzh., red.; POMUTANOV, V.A., inzh., red.; YAGHYEV, E.I.,
inzh., red.; CHECHKOV, L.V., red. inzh.; PROZOROVSKAYA, V.L.,
tekhn. red.; NADEINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gornye delo; entsiklopedicheskii
spravochnik. Glav. red. A.M. Terpigorov. Moscow, Gos. nauchno-
tekhnicheskoe izd-vo lit-ry po ugol'noi promstv. Vol. 2 [Mining
and timbering] Provedenie i kreplenie gornykh vyrabotok. Red-
kollegija red.: N.M. Pukrovskii... 1958. 464 p. (MZhN 11:7)

(Mining timbering) (Mining engineering)

ZINCHENKO, F.

Improve the credit-payment service to collective and state farms.
Den. i kred. 20 no.9 59-63 S '62. (MIRA 15:9)

1. Revizor Krasnoyarskoy krayevoy kontory Gosbanka.
(Agricultural credit)

KUZNETSOV, M., mayor; SIDOROV, A., podpolkovnik; ORLOV, Yu., gvardii podpolkovnik; CHIVENKOV, N., gvardii podpolkovnik; GUDYN, Z., polkovnik; BRUSILOVSKIY, V., mayor tekhn.sluzby; YEVSIKOV, V., podpolkovnik; PIROZHKOV, V., kapitan; PETROV, N., polkovnik; PETROV, L., kapitan 1 ranga; MAMIKON'YAN, A., polkovnik; ZINCHENKO, F., polkovnik; RODIN, V., podpolkovnik; SVIUDERSKIY, V., polkovnik; KOZLOV, V., podpolkovnik; YASHIN, S., mayor; OZERKOV, N., podpolkovnik; EUBKOV, G., podpolkovnik; ANDRIYANOV, N., podpolkovnik

We discuss projects of new general Army regulations. Voen. vest.
38 no.10:23-35 0 '68.

(MIRA 11:10)

(Russia--Army--Regulations)

ZINCHENKO, F.

Control the disbursement of money for state deliveries by consumers cooperatives. Den. i kred. 21 no.10:68-69 O '63. (MIRA 16:10)

1. Revizor pri Krasnoyarskoy krayevoy kontore Gosbanka.

ZINCHENKO, F.

Improve auditing work. Den. i kred. 19 no.7:72-75 JI '61.
(MIRA 14:7)

1. Revizor Krasnoyarskoy kontory Gosbanka.
(Banks and banking) (Auditing)

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CIA-RDP86-00513R002065210020-3

ZINCHENKO, G., kand.ekon.nauk

Man's glory is achieved. Sov. profsoiuzy 17 no.7:7-9 Ap '61.
(MIRA 14:3)
(Labor and laboring classes)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065210020-3"

VOLOVOY, D.; ZINCHENKO, G.

"Two forms of socialist property and ways to merge them" by S.I.
Sdobnov. Reviewed by D.Volovoi, G.Zinchenko. Vop. ekon. no.5:
123-125 My '62. (MIRA 15:6)
(Socialist property) (Collective farms)
(Sdobnov, S.I.)

ZINCHENKO, G.

Several problems in popularizing economic knowledge. Vop.ekon.
no.9:131-135 S '60. (MIRA 13:8)
(Economics--Study and teaching)

ZINCHENKO, G.

Studying economic problems in the party educational system.
Vop. ekon. no.10:141-144 0 '61. (MIR 14:10)
(Economics--Study and teaching)

ZINCHENKO, G. A.

Fruit Culture

Dwarf fruit trees., Sad i og., no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Unci.

ZINCHENKO, Georgiy Il'ich; KONOVALOV, L., red.; KONOVALOVA, L., tekhn. red.

[Study of economics in the system of political education] Izuchenie ekonomiki v sisteme politicheskogo prosveshcheniya. Moskva, Gos-politizdat, 1962. 62 p.
(Economics--Study and teaching)

ZINCHIKO, G.I.

Payment of wages to workers in the tractor brigades of machine-tractor stations. Uch. zap. Akad. obshchestv. nauk no. 261147-167 '57.
(Machine-tractor stations) (Wages) (MIRA 11:3)

L-7777-66 EWT(1)/SPA(sp)-2/21/F(v), SPA(w)-2 AT
ACC NR: AP6025906 SOURCE CODE: UR/0057/34/005/010/1897/1901

AUTHOR: Yekhichev, O.I.; Zinchenko, G.N.; Zinchenko, N.S.; Kurnaukhov, I.M.;
Slabospitskiy, R.P.

ORG: none

TITLE: Mass spectrometric investigation of a source of positive ions operating at a low gas pressure

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1897-1901

TOPIC TAGS: ion source, hydrogen ion, helium, ion beam focusing, chromatic aberration

ABSTRACT: This paper reports tests of an ion source, discussed in more detail elsewhere (G.N. Zinchenko, Diplomnaya rabota, KhGU, 1962), which operates at gas pressures from 10^{-4} to 10^{-6} mm Hg. The ion source employs an electron gun using a flat tungsten-palladium cathode with a 1 mm diameter emitting surface, a focusing electrode, and

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6701 1493

L 7737-66

ACC NR: AP5025906

a 5 mm diameter opening in the electrode. In the accelerating tube the ions were accelerated to 40 keV and focused on a point 150 cm distant. The focusing problem was somewhat complicated by the fact that the ions entered the accelerating tube with a rather wide range of energies, owing to the design of the ion source. Two different focusing systems were designed and tested, one employing an immersion lens and one employing two successive accelerating gaps. The design of these systems, which was accomplished with the aid of conventional design equations, is discussed at some length below. It was anticipated that owing to the low current density the lenses would not perform satisfactorily. It was anticipated that owing to the low current density the lenses would not perform satisfactorily.

14, 7 figures, and 1 table.
SUB CODE: NP/ SUBM DATE: 30Dec64/ ORIG RRF: 004/ OTH RRF: 002

Card 2/2

L 02275-67 EWI(1) IJP(c) AT

ACC NR:

AP6025250

SOURCE CODE: UR/0057/66/036/0CIV/1233/1238
11698

AUTHOR: Zinchenko, G.N.

ORG: none

TITLE: A means for measuring the potential distribution along an electron beam
gm

SOURCE: Zhurnal tehnicheskoy fiziki, v. 36, no. 7, 1233-1238

TOPIC TAGS: electron beam, electric potential, ion energy, ion distribution, electric measurement

ABSTRACT: A method is proposed for deriving the potential distribution along an electron beam moving in an accelerating or a retarding field from measurements of the energy distribution of the residual gas ions produced by the beam. The ions travel along the beam in one direction or the other, depending on the sign of the field, and can be separated from the electrons at the appropriate end of the beam. The energy of a residual gas ion is equal to the potential at its point of origin; the number of ions with a given energy, therefore, is proportional to the length of the segment of the beam which the potential has the corresponding constant value, and the

L 02275-67

ACC NR: AP6025250

2

energy. An equation is derived with which one can calculate the potential distribution along the electron beam from the energy distribution of the residual gas ions when the energy dependence of the ionization cross section is known, and the sources of error are discussed. The proposed method has the advantage of requiring no field distorting electrodes. The method was tested by measuring the potential distribution along a 6 cm long beam of initially 1000 eV electrons in an average retarding field of 13.3 V/cm. The residual air pressure was 1.2×10^{-5} mm Hg. The collector electrode had a hole at its center to permit passage of the residual gas ions. Beyond the collector there was a second electrode maintained at a sufficiently high negative potential to assure that the electrons passing through the hole in the collector would be returned to the collector. The second electrode also had a hole at its center, and the ions passing through that hole were collected in a Faraday cup and their energy distribution was determined with the aid of retarding fields. The potential distribution along the beam was altered by means of cylindrical electrodes (drift tubes), and these alterations were clearly (and presumably faithfully) reflected in the corresponding energy distributions of the residual gas ions. The author thanks Candidate N.S.Zinchenko for his interest and for discussions, and A.A.Zybalov for assistance with the experiments.

Orig. art. has: 13 formulas and 4 figures.

SUB CODE: 20 SUBM DATE: 05 Jul 65 ORIG. REF: 002 OTH REF: 002

Card 2/2 vmb

AUTHOR: Zinchenko, G. N.; Zinchenko, N. S.; Kurchel', A. V.; Nazarenko, O. K.

ORG: Institute of Radio Physics and Electronics, AN UkrSSR [Institut radiofiziki i radioelektroniki, AN UkrSSR] Institute of Electric Welding, AN UkrSSR, Kiev (Institut elektrosvarki AN UkrSSR)

TITLE: Hermetic sealing of tungsten-barium cathodes with the aid of electron-beam welding

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 209-210

TOPIC TAGS: cathode, electron beam welding, hermetic seal, seam welding

ABSTRACT: The authors describe experiments on sealing tungsten-barium cathodes of various geometry, to prevent leakage of the activating gas to the outside of the cathode structure. The tests were made with a specially adapted laboratory setup in which electron-beam welding could be carried out in vacuum up to 5×10^{-3} Torr (Fig. 1). The welding electron gun operated at 40 kV accelerating voltage and was fed from a source of power up to 100 kW. Special sealing joints had to be designed to produce a hermetically-tight welded seam. The construction of the optimal cathode and of the proper welding joints are briefly described. Tests have shown the new cathode construction to be strong enough for lifting from repeated heating and cooling. Orig. art. has: 3 figures.

Card 1/2

UDC: 621.365.735

L 27059-66

ACC NR: AP6007843

Fig. 1. Diagram of electron-beam welding gun.
1 - Heater, 2 - cathode, 3 - focusing electrode,
4 - anode, 5 - electron beam, 6 - aperture dia-
phragm, 7 - beam shutter, 8 - focusing lens,
9 - defocusing system, 10 - welded article,
11 - prism, 12 - optical system, 13 - shielding
glass, 14 - glass rotating mechanism.

SUB CODE: 09, 11, 13 / SUBM DATE: 25Dec64/
CRIS REF: 001

Card 2/2

L 44774-66 EWT(1) AT

ACC NR: AP6031272

SOURCE CODE: UR/0057/66/036/009/1681/1684

AUTHOR: Yekhichev, O. I.; Zinchenko, G. N.; Zinchenko, N. S.; Karnaughov, I. M.;
Slabospitskiy, R. P.; Tarakov, A. A.

ORG: none

TITLE: An atomic beam ionizer as a source of polarized ions

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 9, 1966, 1681-1684

TOPIC TAGS: ionizer, polarized ions, polarized ion source, atomic beam ionizer,
electron beam, ionization

ABSTRACT: An ionizer based on the principle of ion focusing as developed and patented earlier by Zinchenko and others, is described in some detail. In this arrangement, the electron beam is coaxial with, instead of perpendicular to, the beam of polarized atoms, thus increasing the ionization length. The electron beam was produced by an electron gun with an oxide cathode 5.5 and 9.6 mm in inner and outer diameter, respectively. The distance from the cathode to the anode was about 7 mm, and from the anode to the collector, 60 mm. The hole diameters in the cathode, anode, and collector were 6, 7, and 8 mm, respectively. An investigation of the characteristics of the device revealed that the transmission factor of the electrons was 100 percent through the anode orifice, and 92 percent through the entire ionizer. The divergence of the electron beam was small, the beam diameter varying between 6 and 8 mm. A hydrogen atom beam produced by the dissociation of molecules in glow-discharge and

Card 1/2

UDC: 539.188

L 44774-66

ACC NR: AP6031272

focused according to atomic spins in a field of a magnetic quadrupole was introduced into the ionizer. The measured efficiency of ionization was found to be 4.5×10^{-6} at a 90-mamp electron current and a 1400-v potential difference between the cathode and anode. The mass-spectrometric data on the composition of the focused atomic beam showed that it consists of hydrogen atoms, thus confirming the stated efficiency of ionization. This efficiency is 3 to 5 times higher than the results reported in the Proceedings of the International Symposium on Polarization Phenomena of Nucleons (Birkhauser Verlag, Basel und Stuttgart, 1961). Orig. art. has: 3 figures and 1 formula.

[FP]

SUB CODE: 20/ SUBM DATE: 10Dec65/ ORIG REF: 004/ OTH REF: 001/ ATD PRESS: 5080

Card 2/2 UCR

ACC NR: AP7002408

SOURCE CODE: UR/0363/66/002/012/22417/2243

AUTHOR: Yeliseyev, A. A.; Kuznetsov, V. G.; Yarembash, Ye. I.; Vigileva, Ye. S.; Antonova, L. I.; Zinchenko, K. A.

ORG: Institute of General and Inorganic Chemistry im. N. S. Kurnakov, Academy of Sciences, SSSR (Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR)

TITLE: New phase in the system of tellurides of the rare earth metals of ceria subgroup

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 12, 1966, 2241-2245

TOPIC TAGS: compound semiconductor, rare earth metal, telluride, single crystal growing, ~~single~~ crystal structure, crystal electric conductivity

ABSTRACT: The existence of the M_2Te_{7+x} phase within the homogeneity limits between 61 and 64 at% Te was confirmed by chemical, x-ray spectrochemical, and x-ray phase analysis of poly- and single-crystalline M_2Te_7 , where M = La, Pr, or Nd. Previously, the M_2Te_{7+x} phase was detected by different Soviet authors but was absent in the La-Te and La-Nd phase diagrams which were published in the 1965 Western studies. The M_2Te_7 single crystals, 1 x 1 x 1 mm maximum size, were grown from polycrystalline M_2Te_3 by the chemical transport reaction with iodine at a 950-800°C temperature gradient. Simultaneously, the M_2Te_2 single crystals were formed. The shape of the

AM4243/5 UDC: 546.65'241-54-162.2

Card 1/2

ACC NR: AP7002408

La_4Te_7 and LaTe_2 single crystals was identical, while that of the Nd_4Te_7 and NdTe_2 was different. Lattice symmetry type and constants, space symmetry group, number of molecules in the unit cell, and x-ray density were determined and tabulated for La_4Te_7 , Pr_4Te_7 , and Nd_4Te_7 . Lattice constants of Ca_4Te_7 were extrapolated from their plots versus ionic radii of the M^{3+} ions. La_4Te_7 was found to crystallize in a tetragonal not rhombic system, which was previously assigned to La_4Te_7 by the authors. The lattice constants of La_4Te_7 were found to be as follows: $a = b = 9.011 \pm 0.005 \text{ \AA}$, $c = 9.172 \pm 0.005 \text{ \AA}$. The most likely space symmetry group of La_4Te_7 was the centric $P4/mmb$ group. Other $\text{M}_4\text{Te}_{7+x}$ tellurides of the ceria subgroup crystallize in the same system and have the same space symmetry group as La_4Te_7 . Structural similarity and differences were noted between M_4Te_7 and MTe_2 . Electrical conductivity and thermal emf of the M_4Te_7 phase was of the semiconductor type. The existence of the M_7Te_{11} (or $\text{M}_7\text{Te}_{11+x}$) phase was presumed for Ce and Sn because of the crystallochemical analogy between tellurides of the ceria subgroup. Orig. art. has 3 tables and 2 figures.

SUB CODE: 07/ SUBM DATE: 24Feb66/ ORIG REF: 008/ OTH REF: 004/

Card . 2/2

ACC NR: A1 7001306

SOURCE CODE: UR/0057/66/036/012/2136/2144

AUTHOR: Zhigaylo, B.A.; Zinchenko, N.S.

ORG: Institute of Radiophysics and Electronics, Khar'kov (Institut radiofiziki i elektroniki)

TITLE: Production of ions and ion current in a modulated electron beam

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no.12, 1966, 2136-2144

TOPIC TAGS: gas ionization, impact ionization, electron beam, electron collision, beam modulation, velocity modulation, klystron

ABSTRACT: The authors (ZhTF, 34, 1306, 1964) have previously shown that velocity modulation of an electron beam can lead to increased ionization of the residual gas by the beam, owing to the nonlinear dependence of the ionization cross section on the electron velocity. In the present paper this process is treated quantitatively. The basic equations for the treatment of the problem are obtained with the aid of the following simplifying assumptions: the electron beam is infinitely broad (i.e., the problem is treated as one-dimensional) there are no electric fields in the space between the modulating gap and the collector; the effect of space charge on the motion of the electrons, scattering of the electrons by residual gas molecules, and slow secondary electrons are all negligible; and multiple ionization processes contribute negligibly. Further approximations are introduced in the solution of the equations.

UDC: 537.564

Card 1/2

ACC NR: AP 7001306

The velocity dependence of the ionization cross section is represented by an empirical formula, and expressions are derived for the ion current and density. These quantities are found to depend on the modulation factor, the accelerating potential, the static transit angle of the electrons in the modulating gap, and the modulation frequency. Numerical solutions were obtained for the case when the residual gas is nitrogen. These solutions were computed for accelerating potentials from 300 to 1500 V, for the full range of modulation factors from 0 to 1, and for a number of different transit angles; the results are presented as curves showing the ratio of the ion current or density to the corresponding quantity for an unmodulated beam as functions of one of the parameters for fixed values of the other parameters. Under some conditions (in particular, for zero transit angle) the ion current is maximum for a certain modulation factor less than unity. The ion current is a rather complex function of the transit angle, having three maxima and three minima. A few experimental points are shown on some of the curves. These points are in good agreement with the calculated curves, but it is not revealed how (nor by whom) the experimental data were obtained. The authors thank V.I.Malyavko and V.A.Uskov for assistance with the computations. Orig. art. has 15 formulas and 7 figures.

SUB CODE: 20,09 SUBM DATE: 22Jul65 ORIG. REF: 003

Card 2/2

AUTHOR: Zinchenko, G. N.; Zinchenko, N. S.; Kuzhel', A. V.; Pavlenko, O. K.

ORG: Institute of Radio Physics and Electronics, AN UkrSSR (Institut radiofiziki i elektroniki AN UkrSSR); Institute of Electric Welding, AN UkrSSR, Kiev (Institut elektrosvarki AN UkrSSR)

TITLE: Hermetic sealing of tungsten-barium cathodes with the aid of electron-beam welding

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 209-210

TOPIC TAGS: cathode, electron beam welding, hermetic seal, seam welding

ABSTRACT: The authors describe experiments on sealing tungsten-barium cathodes of various geometry, to prevent leakage of the activating BaCO_3 to the outside of the cathode structure. The tests were made with a specially designed laboratory setup in which electron-beam welding could be carried out in vacuum up to 5×10^{-5} Torr (Fig. 1). The welding electron gun operated at 40 kv accelerating voltage and was fed from a source of power up to 0.1 kw. Special welding joints had to be designed to produce hermetically tight joints. The construction of the optimal cathode and of the proper welding joint are briefly described. Tests have shown the new cathode construction to be immune to leaks resulting from repeated heating and cooling. Orig. art. has: 3 figures.

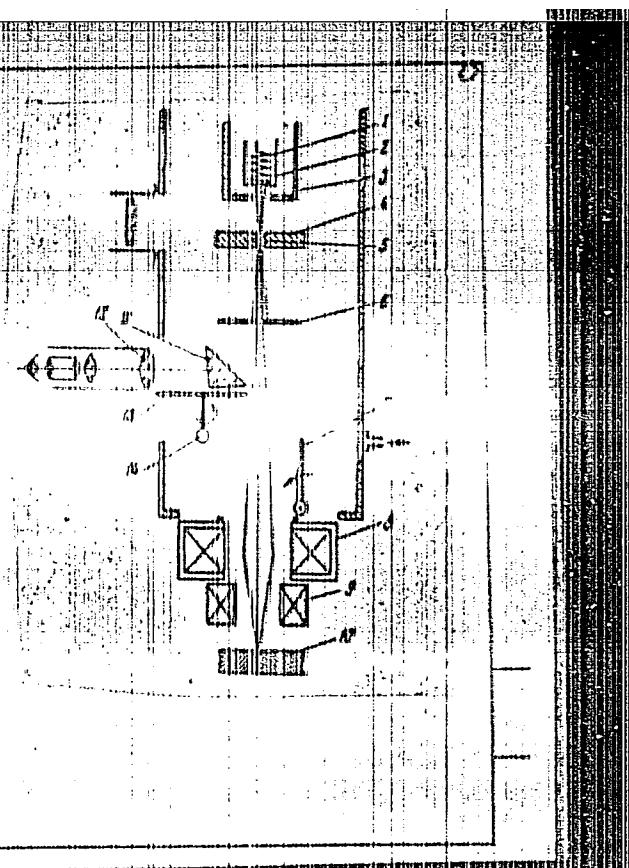
Card 1/2

UDC: 621.389.735

L 27059-66

ACC NR: AP6007843

Fig. 1. Diagram of electron-beam welding gun.
1 - Heater, 2 - cathode, 3 - focusing electrode,
4 - anode, 5 - electron beam, 6 - aperture di-
aphragm, 7 - beam shutter, 8 - focusing lens,
9 - defocusing system, 10 - welded article,
11 - prism, 12 - optical system, 13 - shielding
glass, 14 - glass rotating mechanism.



SUB CODE: 09, 11, 13/ SUBM DATE: 25Dec64/
ORIG RMF: 001

Card 2/2 ✓

L-7737-66		INFO(1)/BPA(sy)=2/BPI(c)/CPA(w)=2	AT	
ACC NR:	AP5025906	SOURCE CODE:	UR/0057/65/035/010/1397/1901	
AUTHOR:	Yekhichev, G.I.; Zinchenko, G.N.; Zinchenko, N.S.; Kurnaukov, I.M.; Slabospitskiy, R.P.	44, 55	44, 55	44, 55
ORG:	none	44, 55	44, 55	44, 55
TITLE:	Mass spectrometric investigation of a source of positive ions operating at a low gas pressure	44, 55	44, 55	44, 55
SOURCE:	Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1397-1901	44, 55	44, 55	44, 55
TOPIC TAGS:	ion source, hydrogen ion, helium, ion beam focusing, chromatic aberration	44, 55	44, 55	44, 55
ABSTRACT:	This paper reports tests of an ion source, discussed in more detail elsewhere (G.N.Zinchenko. Diplomnaya rabota, KhGU, 1962), which operates at gas pressures from 10^{-4} to 10^{-6} mm Hg. The ion source employs an electron gun using a flat tungsten-barium cathode with a 2 mm diameter emitting surface, a focusing electrode, and	44, 55	44, 55	44, 55

COLLECTOR WAS REFLECTED TOWARD THE COLLECTOR AND ENTER THE AMPLIPLICATING TUBE THROUGH											
Card 1/2											
0701 1690											
L 7237-66 ACC NR: AP5025906											
a 5 mm diameter opening in the electrode. In the accelerating tube the ions were ac- celerated to 40 keV and focused on a point 150 cm distant. The focusing problem was somewhat complicated by the fact that the ions entered the accelerating tube with a rather wide range of energies, owing to the design of the ion source. Two different focusing systems were designed and tested, one employing an immersion lens and one employing two successive accelerating gaps. The design of these systems, which was done with the aid of conventional design equations, is discussed at some length. One of the difficulties encountered that owing to the low											

The authors thank A. Ya. Taranov et al. for help in preparing
1a, 7 figures, and 1 table.

SUB CODE: NP / SUBM DATE: 30 Dec 64 / ORIG RFF: 004 / OTH RFF: 002

Card 2/2

ZINCHENKO, G.P.; KALYUGIN, A., student

Echinococcosis of the pericardium. Uch. zap. Stavr. gos. med.
(MIRA 17:7)
inst. 8:150-153 '63

1. Kafedra obshchey khirurgii (zav. - kafedroy, prof. YU.S.
Gilevich) Stavropol'skogo meditsinskogo instituta (rektor
zasluzhennyy deyatel' nauki, prof. V.G. Budylin), i 2-ye
khirurgicheskoye otdeleniya Stavropol'skoy krayevoy kliniches-
koy bol'nitsy (glavnyy vrach Yu.P. Zetov).

BODULIN, V.P., prof.; SKIBA, V.M.; ZINCHENKO, G.P.; KAPLAUKHOVA, T.N.;
KLIMENKO, M.I., student

Change in the blood in echinococcosis. Uch. zap. Stavr. gos.
med. inst. 8:172-176 '63 (MIRA 17:7)

1. Kafedra obshchey khirurgii (sav. kafedroy prof. Yu.S. Gilevich) Stavropol'skogo meditsinskogo instituta (rektor zasluzhennyy deyatel' nauki, prof. V.G. Budylin) i 2-ye khirurgicheskoye otdelenie Stavropol'skoy krayevoy klinicheskoy bol'nitsy (glavnnyy vrach Yu.P. Zotov).

VEREYUTIN, Yu.M.; ZINCHENKO, G.I.; SHMAT'KO, I.T.

Literature on echinococcosis. Uch. zap. Stavr. ges. med. inst.
82258-290 '63 (MIRA 1967)

KARASHUROV, Ye.S., kand. med. nauk; ZINCHENKO, G.P.

Functional changes in the cerebral cortex in acute cholecystitis.
Uch. zap. Stavr. gos. med. inst. 12:75-77 '63. (MIRA 17:9)

1. Kafedra normal'noy fiziologii (zav. zasluzhennyy deyatel'
nauki prof. V.G. Budylin) i obshchey khirurgii (zav. prof.
Yu.S. Gilevich) Stavropol'skogo gosudarstvennogo meditsinskogo
instituta.

ZINCHENKO, G.P., ordinator

Casoni's reaction in the diagnosis of hydatids. Uch. zap.
Stavr. gos. med. inst. 12:216 '63. (MIRA 17:9)

1. Kafedra obshchey khirurgii (zav. prof. Yu.S. Gilevich)
Stavropol'skogo gosudarstvennogo meditsinskogo instituta
i 2-ye khirurgicheskoye otdeleniye Stavropol'skoy krayevoy
klinicheskoy bol'nitay (glavnnyy vrach Yu.P. Zotov).

ZINCHENKO, G. P.

VEBER, M.R., professor; ZINCHENKO, G.P.

Remote results of therapy of cancer of the lower lip and of the
mammary gland. Sov. med. 18 no.7:28-30 J1 '54. (MLEA 7:8)

1. Iz kafedry obshchey kirurgii Stavropol'skogo meditsinskogo
instituta (zav. prof. M.I. Weber) i Stavropol'skogo krayevogo
onkologicheskogo dispensera (glavnnyy vrach V.L. Leonova)

(LIPS, neoplasm)

*ther., result)

(BREAST, neoplasm)

*ther., result)

ZINCHENKO, G.P. (g.Stavropol', Khoperskiy proyezd, d.19)

Experience in using Gordeev's fluid for the treatment of malignant and benign neoplasms of the skin and mucosa of the lower lip [with summary in English] Vop.onk. 2 no.3:354-356 '56. (MLRA 9:10)

1. Iz Stavropol'skogo krayevogo onkologicheskogo dispensera (glav. vrach - dokt. L.I.Leonova, nauch. rukovod. - prof. M.R.Weber)

(ANTISEPTICS, ther. use

Gordeev's solution in cancer of skin & mucosa)

(SKIN NEOPLASMS, ther.

Gordeev's solution)

(MUCOUS MEMBRANES, neoplasms

ther., Gordaev's solution)

(MUCOUS MEMBRANES, neoplasms

ther., Gordaev's solution)

ZINCHENKO, G. V.

T-5

USSR/Pharmacology. Pharmacognosy. Toxicology - Medical Plants.

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71731

Author : Zinchenko, G.V.

Inst :
Title : Pharmacognostic Study of Some Species of Leonorus
Growing in the Ukraine.

Orig Pub : Nekotoryye voprosy farmatsii, Kiev, gozmedisdat USSR,
1956, 280-285

Abstract : It was established that the concentration of active substances in L. villosus and L. glaucescens is found mainly in the leaves and grass during the period of bloom, and in the roots- towards the end of vegetative process. It was demonstrated on frogs that L. villosus, growing in Ukraine has the same sedative action on the central nervous system as the L. villosus of the Moscow region. It was found in mice that the infusions of the grass and roots of L. glaucescens has a stronger sedative effect on the central nervous system than that from L. villosus.

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Card 1/1

USSR/Pharmacology. Pharmacognosy. Toxicology - Medicinal Plants. T-5

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71730

pregnancy) and in the first days post partum, which was expressed by increase in contraction and the tone of the uterus. During heat the action was largest during oestrus; in metoestrus and dioestrus the effect of I was insignificant. I had no effect of the contractions of the uterus in immature animals.

Card 2/2

- 53 -

BUDYLINA, V.V.; MAKHIMOVSKIY, L.I.; BEL'CHENKO, G.V.; ZINCHENKO, I.A.;
FILIMONOVA, A.A.; CHUMANOV, M.A.

Studies on the reactive properties of antidiphtherial sera
treated by aluminum hydroxide; author's abstract. Zhur.
mikrobiol.epid. i immun. 30 no.5:89-90 My '59. (MIRA 12:9)

1. Iz Stavropol'skogo instituta vaktsin i syvorotok, Mineralovodskoy
bol'nitsy, Cherkesskoy oblastnoy bol'nitsy, Stavropol'skoy infek-
sionnoy bol'nitsy i Pyatigorskoy infektsionnoy bol'nitsy.

(ANTACIDS, eff.

aluminum hydroxide on anti-diphtherial immune
sera (Rus))

(DIPHTHERIA, immunol.

antiserum, eff. of aluminum hydroxide (Rus))

ZINCHENKO, I. I., PUKHOV, V. I., and CHERNOBAYEV, N. I.

Opyt Iskusstvennoy Immunizatsii Yagnyat Tsenuroza, "Works on Helmin-thology" on the 75th Birthday of K. I. Skryabin, Izdat. Akad. Nauk, SSSR, 1953, page 56? Stavropol' Sa. Res. Veterinary Experiment Station

YEKHICHEV, O. I.; ZINCHENKO, I. S.; KARNAUKHOV, I. M.; SLABOSPITSKIY, R. P.; TARANOV,
A. Ya.

"A Source of Polarized Deuterons."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

KhFTI (Ukrainian Physico Technical Inst)

ACCESSION NR: AP4036975

S/0078/64/009/005/1302/1303

AUTHOR: Kalitin, V. I.; Luchnaya, N. P.; Yarambush, Ye. I.;
Zinchenko, K. A.

TITLE: Single crystals of praseodymium and neodymium selenides

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 5, 1964.
1302-1303TOPIC TAGS: single crystal, rare-earth selenide, praseodymium
selenide, neodymium selenide, crystal growth, chemical transport
reactionABSTRACT: PrSe₃, NdSe₃, and Nd₂Se₃ single crystals have been
synthesized by the previously described diffusion method, using a
chemical transport reaction with iodine. Optimum conditions for the
reactions were established empirically. Habitus of the crystals
and x-ray crystallographic data are indicated. The Nd₂Se₃ rhombic
crystals were obtained for the first time. Orig. art. has 1 figure.

Card 1/2

ACCESSION NR: AP4036975

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova, Akademii nauk SSSR (Institute of General and Inorganic Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 04Nov63 DATE ACQ: 05Jun64 ENCL: 00

SUB CODE: 111.88 NO REF Sov: 000 OTHER: 003

Card 2/2

KALITIN, V.I.; LUZHNAIA, N.P.; YAREMBASH, Ye.I.; ZINCHENKO, K.A.

Single crystals of praseodymium and neodymium selenides.
Zhur. neorg. khim. 9 no.5:1302-1303 My '64.

(MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.B.
Kurnakova AN SSSR.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065210020-3

YAREMBASH, Ye.I.; YELISEYEV, A.A.; ZINCHENKO, K.A.

Neodymium tellurides. Izv. AN SSSR, Neorg. mat. 1 no.1:60-67 Ja
'65. (MIRA 18:5)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnskova
AN SSSR.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065210020-3"

ACC NR: AP6032946

SOURCE CODE: UR/0363/66/002/010/1747/1756

AUTHOR: Zinchenko, K. A.; Luzhnaya, N. P.; Yarembash, Ye. I.; Yeliseyev, A. A.

ORG: Institute of General and Inorganic Chemistry im. N. S. Kurnakov, Academy of Sciences, SSSR (Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR)

TITLE: Phase diagram and phase properties of the Nd-Te system

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 10, 1966, 1747-1756

TOPIC TAGS: neodymium compound, telluride, semiconductor single crystal, polycrystal, single crystal structure, ~~neodymium telluride semiconductor~~, phase diagram, phase composition, metal physical property, electric resistance, crystal lattice defect

ABSTRACT: The phase composition and physical properties of Nd-Te alloys have been studied over the entire range of compositions. The stated purpose of the study was to refine the previously established phase diagram of the Nd-Te System [Ye. I. Yarembash, A. A. Yeliseyev, K. A. Zinchenko, Zh. neorgan. materialy, v. 1, no. 1, 1965, 60 and N. Kh. Abrikosov, V. Sh. Zargaryan. Zh. neorgan. materialy, v. 1, no. 9, 1965, 1462] and to determine the phase-composition dependence of electrophysical properties of the polycrystalline alloys and of certain single crystals. The complete phase diagram of the Nd-Te System, which was plotted on the basis of new experimental data, was basically similar to that previously established by the authors. The existence of seven individual phases, isostructural with the corresponding La phases,

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was confirmed. New crystallochemical x-ray data were determined for Nd_4Te_7 and NdTe_3 phases. A polymorphic transition was detected by x-ray in the Nd_2Te_3 samples in contrast with the M_2Te_3 compounds of the ceria group elements which precede Nd in the Periodic Table. Melting points of certain phases differ significantly with the earlier Soviet data. Electrical resistivity of the phases in the Nd—Te System continuously increased with an increase in the Te content of the samples. Semiconductor property and n-type conductivity were confirmed in all neodymium tellurides. Carrier concentration varied from 10^{21} cm^{-3} for NdTe to 10^{18} cm^{-3} for NdTe_3 . A defective lattice in Nd_2Te_3 and Nd_4Te_7 was confirmed by the resistivity, thermal conductivity, and most of all, by the coefficient of thermal emf data. Single crystals of Nd_3Te_4 , Nd_4Te_7 , NdTe_2 , and NdTe_3 were grown to obtain purified samples for determining semiconductor characteristics. Orig. art. has: 4 figures and 5 tables.

SUB CODE://20/ SUBM DATE: 09Dec65/ ORIG REF: 007/ OTH REF: 005/

Card 2/2

Solubility of gases in crude oils. K. B. Moshkakov-Nefyodov, A. Vaynshteyn, J.P., No. 2, 30-42 (1937). (Russian) In great vessels were injected into various crude oils under pressure and their absorption by the oil was noted. Light oils held more gas. CO_2 is held most tenaciously and also is absorbed only in small quantities. Burdekinian crude oil contained before absorption CO_2 , 1.02; CH_4 , 6.45; C_2H_6 , 13.73; C_3H_8 , 0.48; C_4H_8 , 0.87; higher homologues, 2.43 and N_2 , 5%. Residual gases not absorbed were in the same order 1.2, 70.2, 8.5, 1.7, 0.4, 0.2, 8.81%. Gases separated after absorption were 3.7, 81.55, 10.21, 3.2, 0.81, 0.33 and N_2 . A. A. Roettinger

14-24 METALLURGICAL LITERATURE CLASSIFICATION

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ZINCHENKO, K. Ye.

600

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"Physical Chemistry of Surface Phenomena in Technology of Oil," Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No 4, 1940. Laboratory of Petroleum Beds Institute of Mining, Academy of Sciences USSR.

9. [REDACTED] Report U-1530, 25 Oct 1951.

The physical chemistry of surface phenomena in the technology of petroleum. II. Molecular-surface properties of petroleums. M. M. Kusakov and K. B. Zhdanenko, *Bull. acad. sci. U. R. S. S., Classe sci. techn.* 1930, No. 7, 19-25.—Ten specimens of petroleums contained strong acids 0.001-0.043, weak acids and phenols 0.001-0.613, free bases 0.003-0.033, bound bases 0.032-0.102, aliphatic terpenes 0.129-3.079, carbenes 0.018-0.102, silicon gels 2.14-16.03 and solid paraffin 1.94-12.30%. The surface tensions of petroleum soaps in nonpolar medicinal oil (surface tension at the boundary with water at 20°) is σ_0 51.6 erg/cm. (cm.) and in nonpolar gasoline (surface tension of the 70-90% fraction at the boundary with water at 20°) is σ_0 49.1 erg/cm. (cm.) were determined at the boundary with water. The mol.-surface characteristics of petroleums are valuable for detg. a no. of their properties. The content of the polar surface-active components in petroleum

has an important effect on the movement of petroleum in the sand layer. The surface-active polar components of petroleum are mainly strong acids, bases and phenols, and the sum of these components decreases with the decrease of the initial surface activity of petroleum. The surface-active components of oil petroleums investigated were more adsorbed (i. e., decreased the surface tension) at the boundary nonpolar gasoline-water than at the boundary nonpolar medicinal oil-water. In the very polar petroleum these differences are especially great. This fact can be explained, evidently, by the change of the colloidal state of the polar surface-active components of petroleum in water. The soln. of petroleum in gasoline is less colloidal and resembles more a true mol. soln. Thirteen references.

W. R. Hearn

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Lab. Petroleum Bed; Inst. Combustible Minerals; Acad. Sci., cl940--.

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ZVEREVA, G.V., prof.; OLESKIV, V.N., assistent; ZINCHENKO, L.G., veteri-
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My '64. (MIRA 18:3)

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CIA-RDP86-00513R002065210020-3"

AUTHOR: Zinchenko, L. K.

STANDBY CODE: UU/0000/00700/000/0060/0167

ORG: none

5.2
49

TITLE: An attempt to evaluate atmospheric turbulence as it affects the quality of a star image

B+1

SOURCE: AN SSSR. Astronomicheskij Vest, Opticheskaya nestabilitnost' zemnoj atmosfery (Optical instability of the earth's atmosphere). Moscow, Izd-vo Nauka, 1965, 60-67

TOPIC TAGS: atmospheric turbulence, atmospheric refraction, wind velocity, temperature gradient, etc

ABSTRACT: One of the chief problems in current turbulence theory is the choice of criteria for determining the state of atmospheric turbulence. Vertical temperature gradients of the air and wind velocity vectors, as proposed by Richardson, are the most convenient for practical use.

$$\frac{dE}{dt} = \int [K_B - K_T \epsilon (T - T_m)] dV$$

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where K_T is the coefficient of turbulent heat conductivity, K_B the coefficient of turbulent viscosity along the vertical, T the average air temperature in the layer (temperature at the middle of the layer), ρ the air density, V the volume of the air mass.

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ORIG REF: 004

Astronomy 12, 55

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